

SEQUENCE LISTING

<110> Crane, Edmund H.  
Crane, Virginia C.

<120> Maize Pathogenesis-Related  
Polynucleotide and Methods of Use

<130> 35718/214291

<150> US 60/195,801  
<151> 2000-04-10

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<213> Zea mays

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<221> CDS

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Met Ala His Ser Arg Ser His His His His Leu Leu Leu Leu Pro Ala  
1 5 10 15

ccc atg gcc acg gcg tgc ttg ctc ctc gcc acc ctc ctc gcg ctc tgc 155  
Pro Met Ala Thr Ala Cys Leu Leu Ala Thr Leu Leu Ala Leu Cys  
20 25 30

gcc gcg ccg gcg ccg acc cac ggc gcg cgc gtc ctc atg ccg ggc ggc 203  
Ala Ala Pro Ala Pro Thr His Gly Ala Arg Val Leu Met Pro Gly Gly  
35 40 45

gcu ggc gcg gtg acc aag gcu cag cag ggt ggc acc ggc agc ggc agc 251  
Ala Gly Ala Val Thr Lys Ala Gln Gln Gly Gly Thr Gly Ser Gly Ser  
50 55 60

aac gcu acg gcu gac gag tac ctc gcu ccu cac aac cag gcu cgc gcu 299  
Asn Ala Thr Ala Asp Glu Tyr Leu Ala Pro His Asn Gln Ala Arg Ala  
65 70 75

gcu gtc ggc gtg gcu ccu ctc cgg tgg aac gcu ggc ctc gct tcu gcu 347  
Ala Val Gly Val Ala Pro Leu Arg Trp Asn Ala Gly Leu Ala Ser Ala  
80 85 90 95

gcc gcu ggg acg gtg gcu cag cag cgg cgg cag ggc ggg tgc gcu ttc 395  
Ala Ala Gly Thr Val Ala Gln Gln Arg Arg Gln Gly Gly Cys Ala Phe  
100 105 110

gct gac gtg ggg gcc agc ccc tac ggc gct aac cag ggg tgg gct agc 443  
Ala Asp Val Gly Ala Ser Pro Tyr Gly Ala Asn Gln Gly Trp Ala Ser  
115 120 125

tac cgc gct ccc gcc gag gtg gtg gct ctg tgg gtg gct gag ggg 491  
Tyr Arg Ala Arg Pro Ala Glu Val Val Ala Leu Trp Val Ala Glu Gly  
130 135 140

cgg tac tac acc cac gcc aac aac acg tgc gcc gct ggg cgg cag tgc 539  
Arg Tyr Tyr Thr His Ala Asn Asn Thr Cys Ala Ala Gly Arg Gln Cys  
145 150 155

ggc acg tac acg cag gtg gtg tgg cgc aac acc gcc gag gtc ggg tgc 587  
Gly Thr Tyr Thr Gln Val Val Trp Arg Asn Thr Ala Glu Val Gly Cys  
160 165 170 175

gct cag gcc agc tgc gcc acg ggc gcc acg ctc acg ctc tgc ctg tac 635  
Ala Gln Ala Ser Cys Ala Thr Gly Ala Thr Leu Thr Leu Cys Leu Tyr  
180 185 190

aac ccg cac ggc aac gtg cag ggc cag agc ccc tac tag ctagctgagg 684  
Asn Pro His Gly Asn Val Gln Gly Gln Ser Pro Tyr \*  
195 200

tcatcaggc gtagcgacgg agcccaactg ccgcgcggcgg cggcagcggg gtacgttaggt 744  
tcatcagtct tctctagttc ggtcacggaa aggctgtttt gtgggtgtat ccgggtgggtgt 804  
tcttgggttt gttgacaact gctttggttt ggtgtatcag cttttgttgc cgggtaaaaaa 864  
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<212> PRT

<213> Zea mays

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35 40 45

Gly Ala Val Thr Lys Ala Gln Gln Gly Gly Thr Gly Ser Gly Ser Asn  
50 55 60

Ala Thr Ala Asp Glu Tyr Leu Ala Pro His Asn Gln Ala Arg Ala Ala  
65 70 75 80

Val Gly Val Ala Pro Leu Arg Trp Asn Ala Gly Leu Ala Ser Ala Ala  
85 90 95

Ala Gly Thr Val Ala Gln Gln Arg Arg Gln Gly Gly Cys Ala Phe Ala  
100 105 110

Asp Val Gly Ala Ser Pro Tyr Gly Ala Asn Gln Gly Trp Ala Ser Tyr  
115 120 125

Arg Ala Arg Pro Ala Glu Val Val Ala Leu Trp Val Ala Glu Gly Arg  
130 135 140

Tyr Tyr Thr His Ala Asn Asn Thr Cys Ala Ala Gly Arg Gln Cys Gly  
145 150 155 160

Thr Tyr Thr Gln Val Val Trp Arg Asn Thr Ala Glu Val Gly Cys Ala  
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 Pro His Gly Asn Val Gln Gly Gln Ser Pro Tyr  
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 1 5 10 15

atg gcc acg gcg tgc ttg ctc ctc gcc acc ctc ctc gcg ctc tgc gcc 96  
 Met Ala Thr Ala Cys Leu Leu Ala Thr Leu Leu Ala Leu Cys Ala  
 20 25 30

gcg ccg ccg acc cac ggc gcg cgc gtc ctc atg ccg ggc ggc gcg 144  
 Ala Pro Ala Pro Thr His Gly Ala Arg Val Leu Met Pro Gly Gly Ala  
 35 40 45

ggc gcg gtg acc aag gcg cag cag ggt ggc acc ggc agc ggc agc aac 192  
 Gly Ala Val Thr Lys Ala Gln Gln Gly Gly Thr Gly Ser Gly Ser Asn  
 50 55 60

gcg acg gcg gac gag tac ctg gcg ccg cac aac cag gcg cgc gcg 240  
 Ala Thr Ala Asp Glu Tyr Leu Ala Pro His Asn Gln Ala Arg Ala Ala  
 65 70 75 80

gtg ggc gtg gcc ccg ctg cgg tgg aac gcg ggc ctg gct tcg gcg gcc 288  
 Val Gly Val Ala Pro Leu Arg Trp Asn Ala Gly Leu Ala Ser Ala Ala  
 85 90 95

gcg ggg acg gtg gcg cag cag cgg cgg cag ggc ggg tgc gcg ttc gcg 336  
 Ala Gly Thr Val Ala Gln Gln Arg Arg Gln Gly Gly Cys Ala Phe Ala  
 100 105 110

gac gtg ggg gcc agc ccc tac ggc gcg aac cag cag ggg tgg gcg agc tac 384  
 Asp Val Gly Ala Ser Pro Tyr Gly Ala Asn Gln Gly Trp Ala Ser Tyr  
 115 120 125

cgc gcg ccg gcc gag gtg gtg gcg ctg tgg gtg gcg gag ggg cgg 432  
 Arg Ala Arg Pro Ala Glu Val Val Ala Leu Trp Val Ala Glu Gly Arg  
 130 135 140

tac tac acc cac gcc aac aac acg tgc gcc gcg ggg cgg cag tgc ggc 480  
 Tyr Tyr Thr His Ala Asn Asn Thr Cys Ala Ala Gly Arg Gln Cys Gly  
 145 150 155 160

acg tac acg cag gtg gtg tgg cgc aac acc gcc gag gtc ggg tgc gcg 528  
 Thr Tyr Thr Gln Val Val Trp Arg Asn Thr Ala Glu Val Gly Cys Ala

165

170

175

cag gcc agc tgc gcc acg ggc gcc acg ctc acg ctc tgc ctg tac aac	576
Gln Ala Ser Cys Ala Thr Gly Ala Thr Leu Thr Leu Cys Leu Tyr Asn	
180 185 190	
ccg cac ggc aac gtg cag ggc cag agc ccc tac tag	612
Pro His Gly Asn Val Gln Gly Gln Ser Pro Tyr *	
195 200	